TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A'Block,3rdCross, 5th Main,
Sahakarnagar,Bangalore-560092
098869 13195,080236 29195

Name of work: Drilling of Borewells Construction of toillets in valmiki park ,Ambabhavani park ,Savarkar park,Anantapura Dobi Ghat and government school Attur in ward no 0.3

Test Report of Physical Properties of Cement-53 Grade

IS: 12269-2013, IS: 4031(Part-1,2,3,4,5,6,11)-1988		Date: 13-05-2020
Lab I'd	ISO/IEC17025:2005	
Client	BBMP , Project Divison, Yelahanka Zone,Bangalore-92	
Consultant	Transheight Consultants Private Limited	
Contractor	Sri K. Gopireddy	
Customer Reference	EE(PROJECT)/YNK ZONE/WO/04/2020-21	
Source of Sample	Sample supplied by Agency	
Sample Condition	Satisfactory	
Date of Reciept	12-05-2020	
Sample Type	Birla Super 53-Grade	
Date of Test	13-05-2020	
Environmental Condition during test	Temperature: 26°C	
	Humidity: 72%	

Test Results

Sl No	Physical Properties	Result	Requirements as per IS: 12269-2013
1	Finess by dry sieving (%)	1.82	-
2	Finess by Air permiability method (m^2/kg, Min)	292.45	225 m2
3	Specific gravity /Density, (gm/cm)	3.39	-
4	Standard Consistency (%)	29.45%	Not Specified
5	Initial Setting time	148 Minutes	Not less than 30 minutes
6	Final Setting Time	260 Minutes	Not more than 15 minutes
7	Soudness (Le Chateliers Method)	1.9 mm	Not more than 10 mm

Remarks :

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

BMC Client Contractor

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Name of work: Drilling of Borewells Construction of toillets in valmiki park ,Ambabhavani park ,Savarkar park,Anantapura Dobi Ghat and government school Attur in ward no 0.3

Test Report of Physical Properties of Cement-53 Grade

IS: 12269-2013, IS: 4031(Part-4,6)-1988 | Date: 13-05-2020

Lab I'd	ISO/IEC17025:2005
Client	BBMP , Project Divison, Yelahanka Zone,Bangalore-92
Consultant	Transheight Consultants Private Limited
Contractor	Sri K. Gopireddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/04/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	12-05-2020
Sample Type	Birla Super 53-Grade
Date of Test	13-05-2020
Environmental Condition during test	Temperature: 26°C
	Humidity: 72%

Compressive Strength

Sl. No	Physical Properties	Result	Requirements as per IS: 12269-2013
1	3 Days	28.7 N/mm^2	Not less than 27 N/mm2
2	7 Days	41.4 N/mm^3	Not less than 37 N/mm3
3	28 Days	54.5 N/mm^4	Not less than 53 N/mm4

Remarks :

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Name of work: Drilling of Borewells Construction of toillets in valmiki park ,Ambabhavani park ,Savarkar park,Anantapura Dobi Ghat and government school Attur in ward no 0.3

Test Report of Fine Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3)-1963 (Reaffirmed-2012)	Date: 13-05-2020
Lab I'd	ISO/IEC17025:2005
Client	BBMP , Project Divison, Yelahanka Zone,Bangalore-92
Consultant	Transheight Consultants Private Limited
Contractor	Sri K. Gopireddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/04/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	12-05-2020
Sample Type	Fine Aggregate
Date of Test	13-05-2020

Total wt of the sample (gms):	1000

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per IS: 383-2016			
					Grading Zone-1	Grading Zone-2	Grading Zone-3	Grading Zone-4
10	0	0	0.0	100	100	100	100	100
4.75	31	31	3.1	96.9	90-100	90-100	90-100	95-100
2.36	65	96	9.6	90.4	60-95	75-100	85-100	95-100
1.18	251	347	34.7	65.3	30-70	55-90	75-100	90100
600	217	564	56.4	43.6	15-34	35-59	60-79	80-100
300	205	769	76.9	23.1	5-20	8-30	12-40	15-50
150	182	951	95.1	4.9	0-10	0-10	0-10	0-15
PAN	49	1000	100.0	0.0	-	-	-	-

Result: The Tested Sample Conforms to Grading Zone-II

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Name of work: Drilling of Borewells Construction of toillets in valmiki park ,Ambabhavani park ,Savarkar park,Anantapura Dobi Ghat and government school Attur in ward no 0.3

Test Report of Fine Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3)-1963 (Reaffirmed-2012)	Date: 13-05-2020
Lab Ref	ISO/IEC17025:2005
Client	BBMP , Project Divison, Yelahanka Zone,Bangalore-92
Consultant	Transheight Consultants Private Limited
Contractor	Sri K. Gopireddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/04/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	12-05-2020
Sample Type	Fine Aggregate
Date of Test	13-05-2020

Physical Properties

Sl.No	Physical Properties	Result	Requirements as per IS: 386-2016
1	Water Absorption (%)	1.68	-
2	Specific Gravity	2.52	-
3	Material Finer than 75 micron (%)	7.15	Uncrushed fine Aggregate Max 3% Crushed Fine Aggregate Max 15% Mixed Fine Aggregate Max 12% Manufacture Fine Aggregate Max 10%

Remarks :

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Name of work: Drilling of Borewells Construction of toillets in valmiki park ,Ambabhavani park ,Savarkar park,Anantapura Dobi Ghat and government school Attur in ward no 0.3

Test Report of Coarse Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3 & 4)-1963 (Reaffirmed-2012)	Date: 13-05-2020
Lab I'd	ISO/IEC17025:2005
Client	BBMP , Project Divison, Yelahanka Zone,Bangalore-92
Consultant	Transheight Consultants Private Limited
Contractor	Sri K. Gopireddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/04/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	12-05-2020
Sample Type	Coarse Aggregate
Date of Test	13-05-2020

Sieve Analysis (Particle Size Distribution) of 20mm Down Coarse Aggregate

Total wt of the sample (gms):			5000		
IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per IS: 383-2016
40	0	0	0.0	100	100
20	252	252	5.0	95.0	90-100
10	2432	2684	53.7	46.3	20-55
4.75	2128	4812	96.2	3.8	0-10
PAN	188	5000	100.0	0.0	-

Remarks :

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Name of work: Drilling of Borewells Construction of toillets in valmiki park ,Ambabhavani park ,Savarkar park,Anantapura Dobi Ghat and government school Attur in ward no 0.3

Test Report of Coarse Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3)-1963 (Reaffirmed-2012)	Date: 13-05-2020
Lab I'd	ISO/IEC17025:2005
Client	BBMP , Project Divison, Yelahanka Zone,Bangalore-92
Consultant	Transheight Consultants Private Limited
Contractor	Sri K. Gopireddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/04/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	12-05-2020
Sample Type	Coarse Aggregate
Date of Test	13-05-2020

Physical Properties

Sl.No	Physical Properties	Result	Requirements as per IS: 386-2016
1	Flakines Index (%)	15.24	Combined Flakiness and Elongation Index ahall nor exceed 40% for uncrushed and crushed aggregate
2	Elongation Index (%)	13.58	
3	Specific Gravity	2.44	-
4	Bulk Density (Loose) (Kg/l)	1.62	-
5	Bulk Density (Composed) (Kg/l)	1.58	-
6	Water Absorption (%)	0.25	-
7	Aggregate Crushing Value (%)	22.57	Max 30% for Aggregates to be used in concrete for wearing surfaces, In case aggregate Crushing Value exceeds 30% then the test for 10% fines should be conducted for aggregate to be used in concrete oter tha for wearing surfaces
8	Aggregate Impact Value (%)	23.25	Max 30% for aggregate to be used in concrete for wearing surfaces, 45% for aggregate to be used in concrete other than for wearing surface.

Remarks :

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Test Report of Coarse Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3 & 4)-1963 (Reaffirmed-2012)	Date: 13-05-2020
Lab I'd	ISO/IEC17025:2005
Client	BBMP , Project Divison, Yelahanka Zone,Bangalore-92
Consultant	Transheight Consultants Private Limited
Contractor	Sri K. Gopireddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/04/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	12-05-2020
Sample Type	Coarse Aggregate
Date of Test	13-05-2020

Sieve Analysis (Particle Size Distribution) of 40mm Down Coarse Aggregate

Total wt of the sample (gms):			15000		
IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per IS: 383-2016
80	0	0	0	100	100
40	561	561	3.7	96.3	90-100
20	5628	6189	41.3	58.7	30-70
10	4352	10541	70.3	29.7	10-35
4.75	4234	14775	98.5	1.5	0-5
PAN	225	15000	100.0	0.0	-

Remarks :

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Test Report of Coarse Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3)-1963 (Reaffirmed-2012)	Date: 13-05-2020
Lab Ref	ISO/IEC17025:2005
Client	BBMP , Project Divison, Yelahanka Zone,Bangalore-92
Consultant	Transheight Consultants Private Limited
Contractor	Sri K. Gopireddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/04/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	12-05-2020
Sample Type	Coarse Aggregate
Date of Test	13-05-2020

Physical Properties

Sl.No	Physical Properties	Result	Requirements as per IS: 386-2016
1	Flakines Index (%)	11.25	Combined Flakiness and Elongation Index shall not exceed 40% for uncrushed and crushed aggregate
2	Elongation Index (%)	12.54	
3	Specific Gravity	2.32	-
4	Bulk Density (Loose) (Kg/l)	1.54	-
5	Bulk Density (Composed) (Kg/l)	1.32	-
6	Water Absorption (%)	0.9	-

Remarks :

Transheight Consultants Pvt. Ltd. Bangalore PMC

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Name of work: Drilling of Borewells Construction of toillets in valmiki park ,Ambabhavani park ,Savarkar park,Anantapura Dobi Ghat and government school Attur in ward no 0.3

Test Report of Steel

IS: 1786-2008, IS: 1608-2005 (Reaffirmed-2011), IS: 1599-2012 | Date: 13-05-2020

Lab Id	ISO/IEC17025:2005
Client	BBMP , Project Divison, Yelahanka Zone,Bangalore-92
Consultant	Transheight Consultants Private Limited
Contractor	Sri K. Gopireddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/04/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	12-05-2020
Sample Type	Meenakshi
Date of Test	13-05-2020

Sl No.	Identification of Sample	Grade of the Sample	Diameter of the Steel Bar	Weight of the Sample	Yield Stress	Tensile Strength	Elongation	Bend Test	Rebend Test
			mm	kg/m	N/mm^2	N/mm^2	%		
1	Meenakshi	Fe500	8.0	0.391	512	652	20	Satisfactory	Satisfactory
2	Meenakshi	Fe500	10.0	0.616	528	672	20	Satisfactory	Satisfactory
3	Meenakshi	Fe500	12.0	0.888	544	668	20	Satisfactory	Satisfactory

Result:

PMC

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Name of work: Drilling of Borewells Construction of toillets in valmiki park ,Ambabhavani park ,Savarkar park,Anantapura Dobi Ghat and government school Attur in ward no 0.3

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 28/05/2020

Lab I'd	ISO/IEC17025:2005
Client	BBMP , Project Divison, Yelahanka Zone,Bangalore-92
Consultant	Transheight Consultants Private Limited
Contractor	Sri K. Gopireddy
Customer Reference	EE(PROJECT)/YNK ZONE/WO/04/2020-21
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	21-05-2020
Sample Type	Plinth Beam-Valmiki park
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 7 Days Compressive Strength
Date of Test	28-05-2020

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Plinth Beam	M20	21-05-2020	28-05-2020	150x150x150	22500	9.05	392.8	17.5	17.02
2	Plinth Beam	M20	21-05-2020	28-05-2020	150x150x150	22500	8.482	376	16.7	
3	Plinth Beam	M20	21-05-2020	28-05-2020	150x150x150	22500	8.809	380.2	16.9	

Result:

Transheight Consultants P. Ltd.

PMC Client Contractor